

FEB 23 2006

PTO/SB/08A (07-05)

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/662,765
Filing Date	September 15, 2003
First Named Inventor	David H. KIL
Art Unit	1631
Examiner Name	Shabo ZHOU <i>Juan S. M.</i>
Attorney Docket Number	ARC012010000

Sheet	1	of	2
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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ² -Number ⁴ -Kind Code ³ (if known)	MM-DD-YYYY		
JS	1	DE 196 36 074 A1	03-26-1998	SIEMENS AG	

**Examiner
Signature**

Date
Considered

07/14/00

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Art Unit	1631
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Examiner Name	Shubo ZHOU Jun Sing
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Attorney Docket Number	ARC012010000
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of

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NON PATENT LITERATURE DOCUMENTS

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**Examiner
Signature**

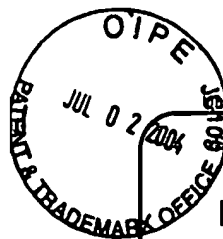
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/662,765
Filing Date	September 15, 2003
First Named Inventor	David H. KIL David H. Kil
Art Unit	Not yet assigned John Sind
Examiner Name	Not yet assigned 1631
Attorney Docket Number	ARC012010000

Sheet 1 of 5

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JJ	1	US- 5,037,207	08-06-1991	Tomei et al.	
	2	US- 5,257,182	10-26-1993	Luck et al.	
	3	US- 5,287,272	02-15-1994	Rutenberg et al.	
	4	US- 5,403,735	04-04-1995	Maruhashi et al.	
	5	US- 5,465,375	11-07-1995	Thepaut et al.	
	6	US- 5,487,117	01-23-1996	Burges et al.	
	7	US- 5,497,430	03-05-1996	Sadovnik et al.	
	8	US- 5,625,705	04-29-1997	Recht	
	9	US- 5,715,327	02-03-1998	Wilhelm et al.	
	10	US- 5,734,735	03-31-1998	Coleman, Jr.	
	11	US- 5,740,269	04-14-1998	Oh et al.	
	12	US- 5,740,270	04-14-1998	Rutenberg et al.	
	13	US- 5,745,601	04-28-1998	Lee et al.	
	14	US- 5,767,923	06-16-1998	Coleman, Jr.	
	15	US- 5,774,357	06-30-1998	Hoffberg et al.	
	16	US- 5,778,108	07-07-1998	Coleman, Jr.	
	17	US- 5,787,188	07-28-1998	Nelson et al.	
	18	US- 5,859,699	01-12-1999	Baer et al.	
	19	US- 5,867,610	02-02-1999	Lee	

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SignatureDate
Considered

07/14/06

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **3**of **5****Complete if Known**

Application Number	10/662,765
Filing Date	September 15, 2003
First Named Inventor	David H. KIL
Art Unit	Not yet assigned <i>John J. Kim</i>
Examiner Name	Not yet assigned <i>167</i>
Attorney Docket Number	ARC012010000

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
<i>JS</i>	39	US- 6,215,892	03-10-2001	Douglass et al.	
	40	US- 6,240,209	05-29-2001	Wilcke	
	41	US- 6,259,807	07-10-2001	Ravkin	
	42	US- 6,327,377	12-04-2001	Rutenberg et al.	
	43	US- 6,337,926	01-08-2002	Takahashi et al.	
	44	US- 6,469,779	10-22-2002	Baer et al.	
	45	US- 6,495,195	12-17-2002	Baer et al.	
	46	US- 6,512,576	01-28-2003	Baer et al.	
	47	US- 6,569,639	05-27-2003	Liotta et al.	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
<i>JS</i>	48	WO 01/33190 A2	05-10-2001			
	49	WO 02/37159 A2	05-10-2002			
	50	EP 0 748 439 B1	07-21-1999			

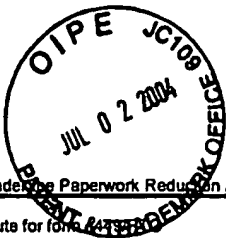
Examiner
Signature*John J. Kim*Date
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		Application Number	10/662,765
		Filing Date	September 15, 2003
		First Named Inventor	David H. KIL
		Art Unit	Not yet assigned <i>Jess - 5.1.1</i>
		Examiner Name	Not yet assigned <i>1631</i>
Sheet 4	of 5	Attorney Docket Number	ARC012010000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>JS</i>	49	Anonymous "ChromaVision" website product description including Rare Cell Detection in Tissue and Rare Cell Detection in Cytospin Prep - retrieval date 6/21/04	
	50	Pizzi, A. "Diagnostic Cytology Learning Page" http://www-ocs.colorado.edu/-metzj/pizzia/learning_page.html Written February 4, 1997, Last updated August 4, 1998	
	51	Duke University, "Evaluation of Cervical Cytology", AHCPR publication No. 99-E010, Feb. 1999.	
	52	Jarkrans, T. "Algorithms for Cell Image Analysis in Cytology and Pathology", Comprehensive Summaries of Uppsala Dissertations, 1996.	
	53	Morrucci, J.F. et al. "Quantification and classification of human sperm morphology by computer assisted image analysis" - Fertil. Steril. Volume 50, Issue 1 pp 142-152, July 1988	
	54	Perez-Sanchez, F. "Morphometric Analysis of human sperm morphology" Int J Androl Volume 17, Issue 5 pp 248-255, Oct 1994	
	55	Jeyendran, R.S. "Association of the in-vitro fertilizing capacity of human spermatozoa with sperm morphology as assessed by three classification systems" - Hum Reprod Volume 1, Issue 5 pp 305-308, Aug 1986	
	56	Grohs, H.K. and Husain, O.A.N. Eds.: "Automated Cervical Cancer Screening" Publisher: Igaku-Shoin Medical Publishers, Chapter 23 pp 305-317, 1994.	
	57	Jarkrans, T. "Algorithms for Cell Image Analysis in Cytology and Pathology", Comprehensive Summaries of Uppsala Dissertations, 1996.	
	58	Salomie, A. et al. (2001). "Multivariate Techniques for Medical Image Segmentation," http://www.etro.vub.ac.be/members/deklerck.rudi/redimedia/segmentation/segment.htm	

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Substitute for form 1448/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/662,765		
		Filing Date	September 15, 2003		
		First Named Inventor	David H. KIL		
		Art Unit	Not yet assigned <i>See serial</i>		
		Examiner Name	Not yet assigned <i>163</i>		
Sheet	5	of	5	Attorney Docket Number	ARC012010000

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<i>JS</i>	59	Schachter, B. J. et al. (1979). "Some Experiments in Image Segmentation by Clustering of Local Feature Values", Pattern Recognition, Pergamon Press Inc., Elmsford, NY, US vol	
<i>J</i>	60	Jong-Min Park et al., (May 2002) "Analysis of active feature selection in optic nerve data using labeled fuzzy C-means clustering", 2002 IEEE World Congress on Computational Intelligence. 2002 IEEE International Conference on Fuzzy Systems, pgs. 1580-1585 vol. 2, 2002, Piscataway, NJ, USA, IEEE, ISBN: 0-7803-7280-8.	
<i>G</i>	61	Frosini, G. et al, (July 2000). "A modified fuzzy C-means algorithm for feature selection", Peachfuzz 2000, 19th International Conference of the North American Fuzzy Information Processing Society, pgs. 148-152, 2000, Piscataway, NJ, USA, IEEE, ISBN: 0-7803-6274-8.	
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Examiner Signature	<i>[Signature]</i>	Date Considered	07/14/06
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